BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to roads and drains at Chokkanahalli And Thirumenahalli Surrounding area in ward No.06 Kogilu

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item No. 01		Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Thirumenahalli									
		Kere Road									
		LHS									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
15	30		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
30	45		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
45	60		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
60	75		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
75	90		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
90	105		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
105	120		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
120	135		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
135	150		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
150	165		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
165	180		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
180	195		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
195	210		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
210	225		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
225	240		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
240	243		Cum	1	3.00	1.10	1.10	1.10	0.90	2.97	
243	250.5	No work	Cum	0	0.00	0.00	0.00	0.00	0.00	0.00	
251	255		Cum	1	4.50	1.10	1.10	1.10	0.90	4.46	
255	257	No work	Cum	0	0.00	0.00	0.00	0.00	0.00	0.00	
257	272		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
272	274.7		Cum	1	2.70	1.10	1.10	1.10	0.90	2.67	
275	282.4	No work	Cum	0	0.00	0.00	0.00	0.00	0.00	0.00	
282	295.3		Cum	1	12.90	1.10	1.10	1.10	0.90	12.77	
		Cross Road									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
15	28.6		Cum	1	13.60	1.10	1.10	1.10	0.90	13.46	
		Culvert									
		thirumenahalli									
		Kere Road									
			Cum	1	6.80	1.40	1.40	1.40	0.95	9.04	
									TOTAL	312.67	

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

PREMEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item No. 02		Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Thirumenahalli									
		Kere Road									
		LHS									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
15	30		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
30	45		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
45	60		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
60	75		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
75	90		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
90	105		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
105	120		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
120	135		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
135	150		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
150	165		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
165	180		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
180	195		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
195	210		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
210	225		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
225	240		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
240	243		Cum	1	3.00	1.10	1.10	1.10	0.15	0.50	
243	250.5	No work	Cum	0	0.00	0.00	0.00	0.00	0.00	0.00	
251	255		Cum	1	4.50	1.10	1.10	1.10	0.15	0.74	
255	257	No work	Cum	0	0.00	0.00	0.00	0.00	0.00	0.00	
257	272		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
272	274.7		Cum	1	2.70	1.10	1.10	1.10	0.15	0.45	
275	282.4	No work	Cum	0	0.00	0.00	0.00	0.00	0.00	0.00	
282	295.3		Cum	1	12.90	1.10	1.10	1.10	0.15	2.13	
		Cross Road									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
15	28.6		Cum	1	13.60	1.10	1.10	1.10	0.15	2.24	
		Culvert									
		thirumenahalli									
		Kere Road									
			Cum	1	6.80	1.40	1.40	1.40	0.15	1.43	
									TOTAL	52.13	

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.04		Supplying, Fitting and Placing TMT Fe550 bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Drain	Tonne		From Calculation Sheeet					5.72	
		Culvert	Tonne		From Calculation Sheeet					0.45	
									TOTAL	6.17	

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to roads and drains at Chokkanahalli And Thirumenahalli Surrounding area in Ward No.06 Kogilu

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

STEEL CALCULATION

SI NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
Item no.04	Supplying, Fitting and Placing TMT Fe550 bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. and as per the direction of Engineer in charge of the work.								
Measurements Taken On;									
	For RCC Drain								
	Thirumenahalli								
	Kere Road								
	LHS								
	Main Bars (#10@120 c/c)	1	10	2318	2318	2.40	5563.20	0.62	3449.18
	Distribution(16-#8)	1	8	16	16	278.10	4449.60	0.39	1735.34
	Cross Road								
	Main Bars (#10@120 c/c)	1	10	238	238	2.40	571.20	0.62	354.14
	Distribution(16-#8)	1	8	16	16	28.60	457.60	0.39	178.46
							QTY IN KG'S		**5717.12**
							QTY IN TONNE		**5.72**
	For Culvert								
	thirumenahalli								
	Kere Road								
	12# @100 c/c main bars	1	12	68	68	5.10	346.80	0.89	308.65
	10# @150 c/c Distrubution bars	1	10	34	34	6.80	231.20	0.62	143.34
							QTY IN KG'S		**451.99**
							QTY IN TONNE		**0.45**
							TOTAL QTY IN KG'S		**6169.11**
							TOTAL QTY IN TONNE		**6.17**

10/5/23

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಜ್ಞಾನಭಾರತಿ ಉಪ ವಿಭಾಗ

10/5/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜ್ಞಾನಭಾರತಿ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Scanned by CamScanner

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item No. 07		Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth.									
Measurements Taken On :											
		Thirumenahalli Kere Road									
0	15		Cum	1	15.00	5.70	5.85	5.78	0.20	17.34	
15	30		Cum	1	15.00	5.85	5.85	5.85	0.20	17.55	
30	45		Cum	1	15.00	5.85	5.95	5.90	0.20	17.70	
45	60		Cum	1	15.00	5.95	6.05	6.00	0.20	18.00	
60	75		Cum	1	15.00	6.05	6.05	6.05	0.20	18.15	
75	90		Cum	1	15.00	6.05	5.90	5.98	0.20	17.94	
90	105		Cum	1	15.00	5.90	6.05	5.98	0.20	17.94	
105	120		Cum	1	15.00	6.05	6.10	6.08	0.20	18.24	
120	135		Cum	1	15.00	6.10	6.10	6.10	0.20	18.30	
135	150		Cum	1	15.00	6.10	6.15	6.13	0.20	18.39	
150	165		Cum	1	15.00	6.15	6.15	6.15	0.20	18.45	
165	180		Cum	1	15.00	6.15	6.30	6.23	0.20	18.69	
180	195		Cum	1	15.00	6.30	6.00	6.15	0.20	18.45	
195	211.2		Cum	1	16.20	6.00	5.20	5.60	0.20	18.14	
211	225		Cum	1	13.80	5.75	5.75	5.75	0.20	15.87	
225	240		Cum	1	15.00	5.75	5.70	5.73	0.20	17.19	
240	255		Cum	1	15.00	5.70	5.70	5.70	0.20	17.10	
255	270		Cum	1	15.00	5.70	5.80	5.75	0.20	17.25	
270	274		Cum	1	4.00	5.80	5.85	5.83	0.20	4.66	
274	275.3	Culvert	Cum	1	0.00	0.00	0.00	0.00	0.20	0.00	
275	285		Cum	1	9.70	6.35	5.80	6.08	0.20	11.80	
285	293		Cum	1	8.00	5.80	5.80	5.80	0.20	9.28	
									TOTAL	346.43	

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item No. 08		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification									
Measurements Taken On :											
		Thirumenahalli Kere Road									
0	15		Cum	1	15.00	5.70	5.85	5.78	0.20	17.34	
15	30		Cum	1	15.00	5.85	5.85	5.85	0.20	17.55	
30	45		Cum	1	15.00	5.85	5.95	5.90	0.20	17.70	
45	60		Cum	1	15.00	5.95	6.05	6.00	0.20	18.00	
60	75		Cum	1	15.00	6.05	6.05	6.05	0.20	18.15	
75	90		Cum	1	15.00	6.05	5.90	5.98	0.20	17.94	
90	105		Cum	1	15.00	5.90	6.05	5.98	0.20	17.94	
105	120		Cum	1	15.00	6.05	6.10	6.08	0.20	18.24	
120	135		Cum	1	15.00	6.10	6.10	6.10	0.20	18.30	
135	150		Cum	1	15.00	6.10	6.15	6.13	0.20	18.39	
150	165		Cum	1	15.00	6.15	6.15	6.15	0.20	18.45	
165	180		Cum	1	15.00	6.15	6.30	6.23	0.20	18.69	
180	195		Cum	1	15.00	6.30	6.00	6.15	0.20	18.45	
195	211.2		Cum	1	16.20	6.00	5.20	5.60	0.20	18.14	
211	225		Cum	1	13.80	5.75	5.75	5.75	0.20	15.87	
225	240		Cum	1	15.00	5.75	5.70	5.73	0.20	17.19	
240	255		Cum	1	15.00	5.70	5.70	5.70	0.20	17.10	
255	270		Cum	1	15.00	5.70	5.80	5.75	0.20	17.25	
270	274		Cum	1	4.00	5.80	5.85	5.83	0.20	4.66	
274	275.3	Culvert	Cum	1	0.00	0.00	0.00	0.00	0.20	0.00	
275	285		Cum	1	9.70	6.35	5.80	6.08	0.20	11.80	
285	293		Cum	1	8.00	5.80	5.80	5.80	0.20	9.28	
									TOTAL	346.43	

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item No. 09		Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification									
Measurements Taken On :											
		Thirumenahalli Kere Road									
0	15		Sqm	1	15.00	5.70	5.85	5.78		86.70	
15	30		Sqm	1	15.00	5.85	5.85	5.85		87.75	
30	45		Sqm	1	15.00	5.85	5.95	5.90		88.50	
45	60		Sqm	1	15.00	5.95	6.05	6.00		90.00	
60	75		Sqm	1	15.00	6.05	6.05	6.05		90.75	
75	90		Sqm	1	15.00	6.05	5.90	5.98		89.70	
90	105		Sqm	1	15.00	5.90	6.05	5.98		89.70	
105	120		Sqm	1	15.00	6.05	6.10	6.08		91.20	
120	135		Sqm	1	15.00	6.10	6.10	6.10		91.50	
135	150		Sqm	1	15.00	6.10	6.15	6.13		91.95	
150	165		Sqm	1	15.00	6.15	6.15	6.15		92.25	
165	180		Sqm	1	15.00	6.15	6.30	6.23		93.45	
180	195		Sqm	1	15.00	6.30	6.00	6.15		92.25	
195	211.2		Sqm	1	16.20	6.00	5.20	5.60		90.72	
211	225		Sqm	1	13.80	5.75	5.75	5.75		79.35	
225	240		Sqm	1	15.00	5.75	5.70	5.73		85.95	
240	255		Sqm	1	15.00	5.70	5.70	5.70		85.50	
255	270		Sqm	1	15.00	5.70	5.80	5.75		86.25	
270	274		Sqm	1	4.00	5.80	5.85	5.83		23.32	
274	275.3	Culvert	Sqm	1	0.00	0.00	0.00	0.00		0.00	
275	285		Sqm	1	9.70	6.35	5.80	6.08		58.98	
285	293		Sqm	1	8.00	5.80	5.80	5.80		46.40	
									TOTAL	1732.17	

Contractor

Assistant Engineer

Assistant Executive Engineer.

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PREMEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item No. 10		Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification									
Measurements Taken On :											
		Thirumenahalli Kere Road									
0	15		Cum	1	15.00	5.70	5.85	5.78	0.05	4.34	
15	30		Cum	1	15.00	5.85	5.85	5.85	0.05	4.39	
30	45		Cum	1	15.00	5.85	5.95	5.90	0.05	4.43	
45	60		Cum	1	15.00	5.95	6.05	6.00	0.05	4.50	
60	75		Cum	1	15.00	6.05	6.05	6.05	0.05	4.54	
75	90		Cum	1	15.00	6.05	5.90	5.98	0.05	4.49	
90	105		Cum	1	15.00	5.90	6.05	5.98	0.05	4.49	
105	120		Cum	1	15.00	6.05	6.10	6.08	0.05	4.56	
120	135		Cum	1	15.00	6.10	6.10	6.10	0.05	4.58	
135	150		Cum	1	15.00	6.10	6.15	6.13	0.05	4.60	
150	165		Cum	1	15.00	6.15	6.15	6.15	0.05	4.61	
165	180		Cum	1	15.00	6.15	6.30	6.23	0.05	4.67	
180	195		Cum	1	15.00	6.30	6.00	6.15	0.05	4.61	
195	211.2		Cum	1	16.20	6.00	5.20	5.60	0.05	4.54	
211	225		Cum	1	13.80	5.75	5.75	5.75	0.05	3.97	
225	240		Cum	1	15.00	5.75	5.70	5.73	0.05	4.30	
240	255		Cum	1	15.00	5.70	5.70	5.70	0.05	4.28	
255	270		Cum	1	15.00	5.70	5.80	5.75	0.05	4.31	
270	274		Cum	1	4.00	5.80	5.85	5.83	0.05	1.17	
274	275.3	Culvert	Cum	1	0.00	0.00	0.00	0.00	0.05	0.00	
275	285		Cum	1	9.70	6.35	5.80	6.08	0.05	2.95	
285	293		Cum	1	8.00	5.80	5.80	5.80	0.05	2.32	
									TOTAL	86.65	

26/05

Contractor

Assistant Engineer

Assistant Executive Engineer

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PREMEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item No. 11		Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification									
Measurements Taken On :											
		Thirumenahalli Kere Road									
0	15		Sqm	1	15.00	5.70	5.85	5.78		86.70	
15	30		Sqm	1	15.00	5.85	5.85	5.85		87.75	
30	45		Sqm	1	15.00	5.85	5.95	5.90		88.50	
45	60		Sqm	1	15.00	5.95	6.05	6.00		90.00	
60	75		Sqm	1	15.00	6.05	6.05	6.05		90.75	
75	90		Sqm	1	15.00	6.05	5.90	5.98		89.70	
90	105		Sqm	1	15.00	5.90	6.05	5.98		89.70	
105	120		Sqm	1	15.00	6.05	6.10	6.08		91.20	
120	135		Sqm	1	15.00	6.10	6.10	6.10		91.50	
135	150		Sqm	1	15.00	6.10	6.15	6.13		91.95	
150	165		Sqm	1	15.00	6.15	6.15	6.15		92.25	
165	180		Sqm	1	15.00	6.15	6.30	6.23		93.45	
180	195		Sqm	1	15.00	6.30	6.00	6.15		92.25	
195	211.2		Sqm	1	16.20	6.00	5.20	5.60		90.72	
211	225		Sqm	1	13.80	5.75	5.75	5.75		79.35	
225	240		Sqm	1	15.00	5.75	5.70	5.73		85.95	
240	255		Sqm	1	15.00	5.70	5.70	5.70		85.50	
255	270		Sqm	1	15.00	5.70	5.80	5.75		86.25	
270	274		Sqm	1	4.00	5.80	5.85	5.83		23.32	
274	275.3	Culvert	Sqm	1	0.00	0.00	0.00	0.00		0.00	
275	285		Sqm	1	9.70	6.35	5.80	6.08		58.98	
285	293		Sqm	1	8.00	5.80	5.80	5.80		46.40	
									TOTAL	1732.17	

Contractor

Assistant Engineer

Assistant Executive Engineer

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PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.14		Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Qty vide From Item No 01+07	Cum		659.10					659.10	
									TOTAL	659.10	

Contractor

Assistant Engineer

Assistant Executive Engineer

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PREMEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.15		Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km and as per the direction of Engineer in charge of the work.									
Measurements Taken On :											
		Qty vide From Item No 14	t.km		659.10		1.28			843.65	
									TOTAL	843.65	

Contractor

Assistant Engineer

Assistant Executive Engineer

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